



MATERIAL SAFETY DATA SHEET
(CHIP REGULATIONS)
Issued / Revised: June 2012

Product Identification: SOLDER BS 219 99C

Trade Name: GRADE 99C

1. Supplier.

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2. Health Hazards Identification.

There are no specific health hazards associated with these substances.

3. Composition / Information on Ingredients.

Ingredients	%	CAS-NO	Hazard
Tin-Sn	99.5	7440-31-5	-
Copper-Cu	0.5	7440-50-8	-

4. First-aid Measures.

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|-------------------|---|
| 4.1 Inhalation: | Bring subject into fresh air. |
| 4.2 Ingestion: | Do not induce vomiting, seek medical advice. |
| 4.3 Skin contact: | Wash with water and soap. |
| 4.4 Eye contact: | Flush eye with running water for at least 15 minutes. |

5. Fire Fighting Measures.

The ingots or sticks are not considered flammable, however in the event of a fire affecting the material the following measures should be taken.

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| 5.1 Suitable extinguishing media: | Dry foam, sand, CO2. |
| 5.2 NOT suitable media: | Never use water near any molten metal. |

6. Accidental Releases Measures.

- 6.1 Personal precautions: Not applicable.
6.2 Environmental precautions: Keep in dry location away from concentrated acids.
6.3 Methods for clean up: Sweep or pick up.

7. Handling & Storage.

- 7.1 Storage conditions: Scrap dross disposed of in closed containers.
7.2 Handling Precautions: Do not inhale vapour/ fumes during soldering. Do not inhale and avoid contact with drosses.
Eating, smoking and drinking should be prohibited on the shop floor areas likely to be contaminated with Lead. Good personal hygiene must be maintained at all times.

8. Exposure Limits, Controls and Personal Protection.

8.1 Exposure Limits.

Ingredient	Workplace Exposure Limit	
	Long-term exposure limit (8hour TWA reference period) mg/m ³	Short-term exposure limit (15 minute reference period) mg/m ³
Tin - Sn	2	4
Copper - Cu	0.2 (fume) 1 (dust)	- 2 (dust)

8.2 Controls and Personal Protection.

- Eye protection: Goggles or visor to be worn to protect against molten metals
Respiratory protection: To be used to avoid inhaling vapor / fumes during soldering.
Skin protection: Gloves and overalls to be worn.

9. Physical & Chemical Properties.

Physical - Chemical Data.

- 9.1 Appearance: Grey coloured stick / ingot.
9.2 Odour: None.
9.3 Melting Point Range: 227-228 Degree Centigrade.
9.4 Boiling Point: Not applicable.
9.5 Flash Point: Not applicable.
9.6 Auto-flammability: Not applicable.
9.7 Density: 7.00 g/cm³
9.8 Explosion Limits: Not applicable.
9.9 Solubility in Water: Not soluble.
9.10 pH-Value: Not applicable.
9.11 Viscosity: Not applicable.

10. Stability- Reactivity.

10.1 Conditions to avoid:	None.
10.2 Materials to avoid:	Avoid water and acids when metal molten.
10.3 Hazardous Decomposition:	In contact with concentrated acids, toxic gases may be given off.

11. Toxicological Information.

Toxicological data: None known.

12. Ecological Information.

12.1 Mobility:	In the forms sold not considered mobile. Drosses will be considered mobile and capable of effecting the environment.
12.2 Persistence and degradability. Biological Oxygen Demand. Chemical Oxygen Demand.	All heavy metals are considered persistent. Not applicable. Not applicable.
12.3 Aquatic toxicology.	In form sold not applicable. Drosses could be taken up by all aquatic organisms.

13. Disposal Considerations.

Waste disposal is subject to a Duty of Care and the Waste Management Licensing Regulations. Drosses will be subject to the Hazardous Waste Regulations.

14. Transport Information.

Not subject to the Dangerous Goods Regulations, ADR.

15. Regulatory Information / Hazardous Labeling.

15.1 Classification;

15.2 Risk & Safety Phrases:

This information does not constitute the users own assessment of workplace risk as required by H&S legislation.

16. Other Information

16.1 EH40/ 2005	Workplace Exposure Limits.
16.2 CHIP	Chemical (Hazard Information and Packaging for Supply) Regulations.
16.3 HSE. (COSHH)	Control of Substance Hazardous to Health Regulations.

This document also serves as Certificate of Compliance with regard to the RoHS Directive.

The information given in this sheet represents the best of our knowledge; it may not be used as a warranty.